

549,660

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
30 September 2004 (30.09.2004)

PCT

(10) International Publication Number
WO 2004/083898 A1

- (51) International Patent Classification⁷: G01V 11/00 (74) Agents: REES, David, Christopher et al.; Kilburn & Strode, 20 Red Lion Street, London WC1R 4PJ (GB).
- (21) International Application Number:
PCT/GB2004/001144 (81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (22) International Filing Date: 17 March 2004 (17.03.2004)
- (25) Filing Language: English (26) Publication Language: English
- (30) Priority Data:
0306059.7 17 March 2003 (17.03.2003) GB
- (71) Applicant (*for all designated States except US*): ELECTROMAGNETIC GEOSERVICES AS [NO/NO]; Stiklestadveien 1, N-7041 Trondheim (NO).
- (71) Applicant (*for IS only*): REES, David, Christopher [GB/GB]; Kilburn & Strode, 20 Red Lion Street, London WC1R 4PJ (GB).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): EIDESCMO, Terje [NO/NO]; Markapl. 5, N-7054 RANHEIM (NO). ELLINGSRUD, Svein [NO/NO]; Tyholt alle 9A, N-7052 Trondheim (NO). FARESTVEIT, Anders [NO/NO]; Kollevieen 15, N-1397 Nesoya (NO). PEDERSEN, Hans, Magne [NO/NO]; Hans Hagrups gate 8, N-7012 Trondheim (NO). JOHANSEN, Stale [NO/NO]; Loddgardstroa 27B, N-7224 Melhus (NO).
- (84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2004/083898 A1

(54) Title: METHOD AND APPARATUS FOR DETERMINING THE NATURE OF SUBMARINE RESERVOIRS

(57) Abstract: A system for investigating subterranean strata. An electromagnetic field and a seismic event are applied from the same location and the responses are detected using respective receivers both located at a second location spaced from the first. The responses are combined to identify the presence and/or nature of subterranean reservoir. The refracted wave components are used.